

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)
SDS Reference Number: 31332
Issue date: 2/11/2025 Version: 1.0

SECTION 1 Identification**1.1. Product identifier**

Product form : Mixture
Product name : Motivity Bay Cleaner

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

No additional information available

1.4. Supplier's details

Motivity
900 Mendelssohn Ave N
Golden Valley, MN, 55427
USA
T 800-636-7990

1.5. Emergency phone number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2 Hazard Identification**2.1. Classification of the substance or mixture****GHS US classification**

Skin corrosion/irritation, Category 1	H314	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Full text of H statements : see section 16		

2.2. Label elements**GHS US labeling**

Hazard pictograms (GHS US)

:



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage

Precautionary statements (GHS US)

: P260 - Do not breathe dust, fume, gas, mist, vapours, spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Motivity Bay Cleaner

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

P310 - Immediately call a poison center or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P363 - Take off immediately all contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID	CAS-No.: 2809-21-4	5 – 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
HYDROGEN PEROXIDE (H2O2)	CAS-No.: 7722-84-1	1 – 5	Acute Tox. 4 (Inhalation:dust,mist), H332
ISOPROPYLIDENE GLYCOL	CAS-No.: 100-79-8	1 – 5	Flam. Liq. 4, H227 Eye Irrit. 2, H319

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Call a physician immediately.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

Motivity Bay Cleaner

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.
Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

Motivity Bay Cleaner

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including incompatibilities

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Store locked up.
Packaging materials	: Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

Local name	Hydrogen peroxide
ACGIH OEL TWA	1 ppm
Remark (ACGIH)	TLV® Basis: Eye, URT, & skin irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2022
Local name	Hydrogen peroxide
OSHA PEL TWA	1.4 mg/m ³ 1 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing

Motivity Bay Cleaner

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: Clear
Odor	: Fresh
Odor threshold	: No data available
pH	: 1.52
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: > 100 °C
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.0789 @ 15.6°C
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

COMP - 1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID

Particle characteristics	No data available
--------------------------	-------------------

COMP - ISOPROPYLIDENE GLYCOL

Particle characteristics	No data available
--------------------------	-------------------

COMP - HYDROGEN PEROXIDE (H2O2)

Particle characteristics	No data available
--------------------------	-------------------

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

Motivity Bay Cleaner

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID (2809-21-4)

LD50 dermal rabbit	> 10000 mg/kg (24 h, Rabbit, Male / female, Literature study, Dermal)
ATE US (oral)	1878 mg/kg body weight

ISOPROPYLIDENE GLYCOL (100-79-8)

LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:
-----------------	--

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

LD50 dermal rabbit	3000 mg/kg Source: ChemIDPlus
LC50 Inhalation - Rat	2000 mg/m ³ Source: ChemIDPlus
ATE US (dermal)	3000 mg/kg body weight
ATE US (vapors)	2 mg/l/4h
ATE US (dust, mist)	2 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.
pH: 1.52

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

pH	2.02 (50 %, 21 °C)
----	--------------------

Serious eye damage/irritation : Causes serious eye damage.
pH: 1.52

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

pH	2.02 (50 %, 21 °C)
----	--------------------

Respiratory or skin sensitization : Not classified

Motivity Bay Cleaner

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID (2809-21-4)	
NOAEL (chronic,oral,animal/male,2 years)	≥ 384 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (chronic,oral,animal/female,2 years)	≥ 493 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

HYDROGEN PEROXIDE (H2O2) (7722-84-1)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID (2809-21-4)	
NOAEL (animal/male, F1)	≈ 294 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID (2809-21-4)	
LOAEL (oral,rat,90 days)	169 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
NOAEL (oral,rat,90 days)	41 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:

ISOPROPYLIDENE GLYCOL (100-79-8)	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard : Not classified

Motivity Bay Cleaner	
Viscosity, kinematic	No data available

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID (2809-21-4)	
Viscosity, kinematic	No data available

ISOPROPYLIDENE GLYCOL (100-79-8)	
Viscosity, kinematic	10.319 mm²/s

HYDROGEN PEROXIDE (H2O2) (7722-84-1)	
Viscosity, kinematic	No data available

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

Motivity Bay Cleaner

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID (2809-21-4)

LC50 - Fish [1]	2180 mg/l (Equivalent or similar to OECD 203, 96 h, Cyprinodon variegatus, Static system, Salt water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	527 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 - Other aquatic organisms [1]	1770 mg/l Test organisms (species): Palaemonetes pugio
EC50 96h - Algae [1]	3.5 – 12 mg/l (Other, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers)
NOEC (chronic)	6.75 mg/l Test organisms (species): Daphnia magna Duration: '28 d'

ISOPROPYLIDENE GLYCOL (100-79-8)

LC50 - Fish [1]	16.7 mg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1]	> 96 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 - Crustacea [2]	4.6 g/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 92 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	> 92 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)
NOEC (chronic)	10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

LC50 - Fish [1]	16.4 mg/l Source: ECHA
EC50 72h - Algae [1]	1.38 mg/l Source: ECHA

12.2. Persistence and degradability

Motivity Bay Cleaner

Persistence and degradability	Not rapidly degradable
-------------------------------	------------------------

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID (2809-21-4)

Persistence and degradability	Not readily biodegradable in the soil, Not readily biodegradable in water.
Chemical oxygen demand (COD)	0.00026 g O ₂ /g substance

ISOPROPYLIDENE GLYCOL (100-79-8)

Persistence and degradability	Biodegradability in soil: no data available, Not readily biodegradable in water.
-------------------------------	--

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

Persistence and degradability	Biodegradability: not applicable.
-------------------------------	-----------------------------------

Motivity Bay Cleaner

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID (2809-21-4)

BCF - Fish [1]	71 (Other, 49 day(s), Cyprinus carpio, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-3.5 (Experimental value, Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

ISOPROPYLIDENE GLYCOL (100-79-8)

Partition coefficient n-octanol/water (Log Pow)	-0.6 (Practical experience/observation, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

Partition coefficient n-octanol/water (Log Pow)	-1.36 Source: IPCS
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID (2809-21-4)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.22 (log Koc, Other, Experimental value)
Ecology - soil	Low potential for mobility in soil.

ISOPROPYLIDENE GLYCOL (100-79-8)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	< 1.25 (log Koc, Equivalent or similar to OECD 121, Experimental value)
Ecology - soil	Highly mobile in soil.

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

Surface tension	80.4 mN/m (20 °C, Pure substance, 100 %)
Ecology - soil	No (test)data on mobility of the component(s) available.

12.5. Other adverse effects

Ozone	: Not classified
Fluorinated greenhouse gases	: No

SECTION 13 Disposal considerations

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.

Motivity Bay Cleaner

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Additional information : Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT

14.1. UN number

Not regulated for transport

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not regulated

SECTION 15 Regulatory information

15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID	2809-21-4	Present	Active	
ISOPROPYLIDENE GLYCOL	100-79-8	Present	Active	
HYDROGEN PEROXIDE (H2O2)	7722-84-1	Present	Active	

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

Not subject to reporting requirements of the United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb

Motivity Bay Cleaner

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

15.2. International regulations

CANADA

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID (2809-21-4)

Listed on the Canadian DSL (Domestic Substances List)

ISOPROPYLIDENE GLYCOL (100-79-8)

Listed on the Canadian DSL (Domestic Substances List)

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID (2809-21-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

HYDROGEN PEROXIDE (H2O2) (7722-84-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

No additional information available

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date : 2/11/2025

Full text of hazard classes and H-statements	
H227	Combustible liquid
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.